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Pre-a  
7-11-02  
Hawkins

Attorney Docket: 843/49885  
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: JOHANNES K. DUERR  
Serial No.: 09/887,563  
Filed: June 23, 2001  
Title: FIBER COMPOSITE MATERIAL WITH PIEZOELECTRIC  
SENSOR OR ACTOR INTEGRATED THEREIN

PRELIMINARY AMENDMENT

Box Non-Fee Amendment  
Commissioner for Patents  
Washington, D.C. 20231

October 16, 2001

Sir:

Please enter the following amendments to the specification, claims and abstract prior to the examination of the application.

IN THE SPECIFICATION:

Please amend the following paragraphs of the specification as follows: (A copy of a marked up version with markings to show changes made is attached hereto.)

A<sup>1</sup>  
cont.  
[0003] In piezoelectric materials, such as quartz crystals or PZT-ceramics (PZT = lead - zirconate - titanate), an applied electric field results in elongations or contractions of the material. Piezoceramic actuators are therefore able to